

Ch 11 Test
tomorrow

This is how the
formulas will
appear.

$$a_n = a_1 + (n-1)d$$

$$a_n = a_1 r^{n-1}$$

$$S_n = \frac{n}{2}(a_1 + a_n)$$

$$S_n = \frac{n}{2}(2a_1 + (n-1)d)$$

$$S_n = \frac{a_1 - r a_n}{1-r}$$

$$S_n = \frac{a_1 - a_1 r^n}{1-r}$$

$$S_n = \frac{a_1(1-r^n)}{1-r}$$

$$S_\infty = \frac{a_1}{1-r}$$

Be able to

- find a specific term
- find a sum
- find means
- find d or r
- put into sigma notation
- solve word problems
- arith., geom, or infinite

$$\sum_{n=4}^{16} (3n+2)$$

12 terms
16-4+1

$$S_{12} = \frac{12}{2} [14 + 47]$$

$$S_{12} = 366$$

$$\cancel{a_7} = 24.2$$

$$a_{20} = 65.8$$

What is the sum?

$$d = 3.2$$

$$\sum_{n=10}^{39} 4(1.2)^{n-1}$$

26 terms

$$S_n = \frac{a_1(1-r^n)}{1-r}$$

$$\frac{20.639(1-(1.2)^{26})}{1-1.2}$$

$$S_n = \frac{a_1 - r a_n}{1-r}$$

$$\frac{20.639 - (1.2)(a_{39})}{1-1.2}$$

$$\frac{11710.16898}{1-1.2}$$

2014/2015

Review Assignment

p627 #s 1-15, 23, 24 (not 2 or 3)

p624 #26

p623 #18 (put into sigma notation and find sum)